Beam Power Tube

For Use as a Horizontal-Deflection Amplifier Tube in Color and Black-and-White Television Receivers

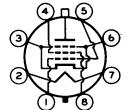
GENERAL DATA

Electrical:		
Heater Characteristics and Ratings: Voltage (AC or DC) Current at heater volts = 6.3 Peak heater-cathode voltage: Heater negative with	6.3 2.500	± 0.6 volts
respect to cathode	200	max. volts
Heater positive with respect to cathode	200	a max. volts
Direct Interelectrode Capacitances: b Grid No.1 to phate	0.5	pf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	23.0	pf
Plate to cathode & grid No.3, grid No.2, and heater	11.0	pf
Characteristics, Class A Amplifier:		
		Triode Connec- tion ^C
Plate Voltage	70 175 125 125 0 -25 - 5500 - 10500 550d 110 42d 5	- volts -25 volts 3.3 - ohms - μmhos - ma - ma
Mechanical:		
Operating Position. Type of Cathode	Coated 4 	5"1/4" ± 3/16" 1-9/16" T12 EDEC No.C1-1) l Octal 8-Pin

Basing Designation for BOTTOM VIEW. 8JC

Pin 1-Grid No.1 Pin 2-Heater Pin 3-Cathode, Grid No.3 Pin 4-Grid No.2

Pin 5-Grid No.1



Pin 6 - Cathode, Grid No.3 Pin 7 - Heater Pin 8 - Grid No.2 Cap - Plate

HORIZONTAL-DEFLECTION AMPLIFIER

→ Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame systeme	For	operation	in	\boldsymbol{a}	525-line,	30-frame	system e
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DC PLATE-SUPPLY VOLTAGE			990	max.	volts
PEAK POSITIVE-PULSE PLATE V			6500	max.	volts
PEAK NEGATIVE-PULSE PLATE V			1100	max.	volts
DC GRID-No.2 (SCREEN-GRID)			190	max.	volts
PEAK NEGATIVE-PULSE GRID-No	.1 VOLTA	GE .	250	max.	volts
CATHODE CURRENT:					
Peak			1100	max.	ma
Average			315	max.	ma
GRID-No.2 INPUT			3.2	max.	watts
PLATE DISSIPATION9			24	max.	watts
BULB TEMPERATURE (At hottes	st				
point on bulb surface)			220	max.	οС

Maximum Circuit Values:

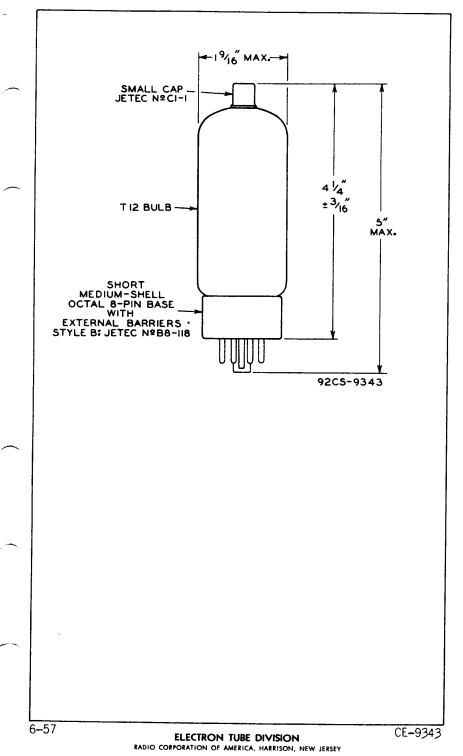
Grid-No.1-Circuit Resistance:

For grid-resistor-bias operation ${\bf 9}$. . . 0.47 max. megohm

- a The dc component must not exceed 100 volts.
- b Without external shield.
- with grid No. 2 connected to plate.
- d These values can be measured by a method involving a recurrent wave form such that the plate dissipation, grid-No. 2 input, and cathode current will be kept within ratings in order to prevent damage to the tube.
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
- f
 This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- 9 It is essential that the plate dissipation be limited in the event of loss of grid signal. For this purpose, some protective means such as a cathode resistor of suitable value be employed.



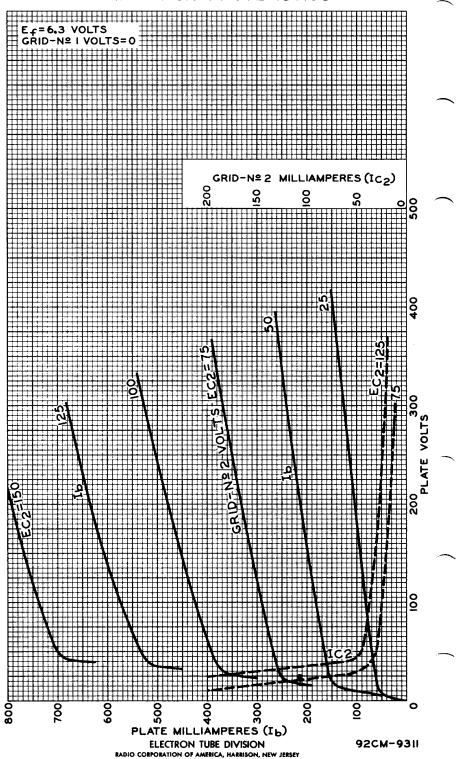
BEAM POWER TUBE





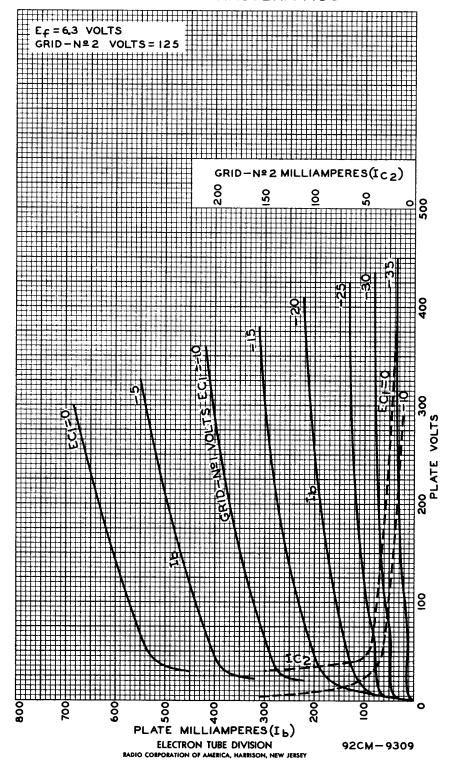


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